

Source Water Assessment and Protection Update

Information for DHS staff and LPA counties on the California Drinking Water Source Assessment and Protection Program (DWSAP)

Issue 5

May 2001

Mapping Tool Available

The mapping tool is available to DHS districts and LPA counties. The tool allows you to prepare an assessment map for a drinking water source.

The mapping tool is an Internet-based application that displays drinking water sources super-imposed on USGS topographic maps. You first select a USGS quad map by entering the map name or by zooming in on a map of the state. As you zoom in, drinking water sources appear as dots (blue dots if the source has been GPSed, red dots if they haven't). The sources are labeled by their FRDS identification numbers (seven digit water system number + three digit source identification number).

After selecting a source you can delineate protection zones by either selecting defaults, or by entering values to be used in the Calculated Fixed Radius method.

Please note that the mapping tool accesses an enormous amount of data. It is recommended that you use a high-speed Internet access.

The mapping tool can be reached through the UCD SWAP website <http://swap.ice.ucdavis.edu/>.

You will be prompted for a user name and password. This information was e-mailed to all DHS districts and LPAs. Contact Leah Walker at lwalker2@dhs.ca.gov if you need the password information. A manual for the mapping tool is also available at the UCD SWAP website.

The tool is still under development. Upcoming improvements include a print function (standardized map size, scale, and title block), and display of some Possible Contaminating Activities (PCA) data. ❖

TurboSWAP Released

TurboSWAP was distributed to all DHS districts and LPA counties in January 2001. Training was provided to staff in March.

The current version of TurboSWAP (dated May 8, 2001) may be used for groundwater sources that are currently in the DHS database. A future version of TurboSWAP will include options for doing reduced assessments for transient noncommunity systems. Until then, you may use TurboSWAP for transient systems, but you will need to do the more detailed assessment procedures.

Another upcoming version of the program will allow you to submit summary information for assessments completed without TurboSWAP.

You can download a copy of the TurboSWAP instruction manual from the UCD SWAP server <http://swap.ice.ucdavis.edu/>. Minor changes were made to the manual in April 2001. ❖

DWSAP Workplan Updates due July 1, 2001

All DHS districts and LPA counties must submit updated DWSAP workplans by July 1, 2001. Previous workplans and blank forms were sent to all Districts and LPAs in May. The updated workplans should be faxed (or e-mailed) to Leah Walker at 707-576-2722. ❖

Acronyms used in this Newsletter

DHS – California Department of Health Services, Division of Drinking Water and Environmental Management

DMS – GPS Data Management System (data dictionary software for GPS units developed by UCD-ICE)

GIS – Geographic Information System

GPS – Global Positioning System

LPA – Local Primacy Agency (a county that has been delegated primacy for the drinking water regulatory program for small water systems)

UCD-ICE – University of California, Davis Information Center for the Environment (DHS contractor for GIS, GPS and other data tools).

EPA – US Environmental Protection Agency

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GPS Progress

Substantial progress is being made in GPS location of sources.

If you encounter any difficulties with GPS, send a note to Sky Harrison at UCD-ICE (sky@ice.ucdavis.edu).

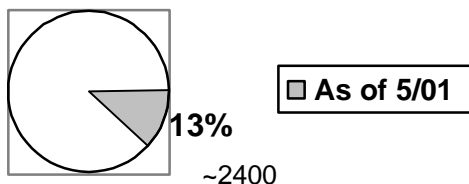
To date, UCD-ICE has NOT received data from the following DHS districts:
Sacramento

Data has also NOT been received from the following LPAs:

| | |
|------------|------------|
| Alpine | Imperial |
| Marin | Merced |
| Mono | Santa Cruz |
| Stanislaus | Yolo |

DHS Districts should check with these LPAs to determine if they need assistance with GPS. ❖

Sources with GPS Locations *



* Submitted through GPS DMS

Assessment Progress

With the release of TurboSWAP, the number of completed assessments is increasing rapidly.

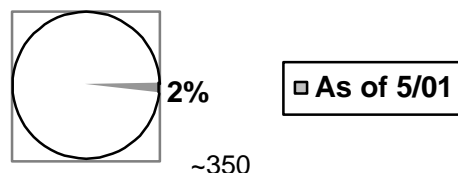
A list of completed assessments is posted on the DHS website at <http://www.dhs.ca.gov/ps/ddwem/dwsap/assessments.htm>.

Note that this list includes only assessments reported to Leah Walker, and all those submitted via TurboSWAP.

If you have other completed assessments to report, send a message to Leah Walker at lwalker2@dhs.ca.gov. In your note, include the water system name, water system number, source name, source number, and indicate whether the source is ground water or surface water.

Future versions of TurboSWAP will allow you to record assessments that were completed by other methods. When this is available, all reporting on assessments will occur through TurboSWAP. ❖

Completed Assessments



Which Sites Need a GPS Location?

Though not required for DWSAP, US EPA requires DHS to have an accurate source location for all source records in the PICME database. This includes wells, intakes, treatment plants, distribution entry points, blending points, and others.

The top priority for GPS locations at this time is the sources – wells, surface water intakes, and springs.

It may be most efficient to obtain GPS locations for all of a system's source records in the same field visit. However, this isn't required. It may be more effective to do all the wells and/or intakes on one visit, and to do the other points in another trip.

In addition, if it is feasible, try to obtain GPS locations for abandoned or destroyed sources (if they can be found). This provides a useful historical record. ❖

California Rural Water Association

CRWA is a nonprofit organization that provides assistance to small communities with their water and wastewater systems.

CRWA is actively promoting and supporting source water assessment and protection. Sue Murphy, Groundwater Specialist, has been working with over 40 water systems to conduct source water assessments. Mark Cotter, Source Water Specialist, was recently hired to work with water systems on protection programs.

You are encouraged to refer interested systems to Sue and/or Mark. Sue can be reached at 916-553-4900 or at smurphy@cw.com. Mark can also be reached at 916-553-4900 or at mcotter@cw.com. ❖



Data Advisory Committee (DAC) Update

State Board To Require Electronic Submittal of Data and Precise Location of GW Monitoring Wells

As part of the DWSAP program, a Data Advisory Committee (DAC) meets regularly with DHS and UCD-ICE to discuss the many issues involving data. The DAC meets every two to three months at UC Davis. It includes representatives from state, federal, and local agencies and water systems.

In March the DAC heard a presentation by Michael Gjerde of the State Water Resources Control Board, Clean Water Program (State Board). Michael described recent legislation that requires the electronic submittal of data from cleanup sites for leaking underground storage tanks (LUST).

AB2886 (Water Code Sections 13195-13198) requires responsible parties (RPs) to electronically submit compliance data, such as soil or water chemistry analysis, location, and elevation data to the SWRCB Geographical Environmental Information Management System (GeoTracker). This data is currently reported in paper format in site investigations and quarterly monitoring reports. By September 1, 2001 the laboratory analytical data from all LUST sites will be required to be electronically reported to GeoTracker, as well as submitted on paper forms. After January 1, 2002, location data and elevation data will also need to be electronically reported.

The State Board's proposed emergency regulations to carry out this legislation require that "Beginning January 1, 2002, any person submitting laboratory data in electronic format pursuant to these regulations shall specify the location where the analyzed sample was collected: 1) the latitude and longitude of groundwater monitoring wells accurate to within one meter, and 2) the surveyed elevation relative to mean sea level on any groundwater monitoring well sampled."

There are approximately 15,000 active LUST cleanup sites in the state. For more information regarding the electronic submittal of data visit the State Board website at <http://www.swrcb.ca.gov/cwphome/ust/docs/ab2886/list.html>. You can contact Michael Gjerde at (916) 341-5682 or send a note to him at gjerdem@cwpswrcb.ca.gov.

For more information about upcoming DAC meetings contact Leah Walker at lwalker2@dhs.ca.gov. ❖

LPA DWSAP Invoices

LPA counties must make sure that the all DWSAP invoices include the county name, address, and the invoice number. Remember to include a narrative description of work accomplished, and attach receipts for equipment purchases.

The invoices must be consistent with budgeted line items, including benefits and overhead percentages. If these numbers have changed, the budget must be revised. ❖

Submit all DWSAP invoices and contract changes to:

**Department of Health Services
Drinking Water State Revolving Fund**

**Attention: Angela Duromola
P.O. Box 942732**

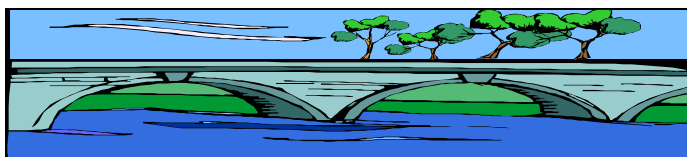
**Sacramento, CA 94234-7320
aduromol@dhs.ca.gov**

LPA DWSAP Budgets

Its that time of year again! LPA counties should review their budgets for the DWSAP contracts. Any unspent funds budgeted for the 2000-2001 fiscal year may be rolled over into future years. However, a contract amendment is required to roll over the funds.

To begin the contract amendment process, obtain an electronic copy of your current budget by sending an e-mail message to Angela Duromola at aduromol@dhs.ca.gov.

Send the revised budgets back to Angela, preferably via e-mail. DHS will process the contract amendment. ❖



TurboSWAP Available for Water Systems

TurboSWAP is a software program developed for DHS by UCD-ICE. TurboSWAP makes the source water assessments easier to do, produces complete reports in a consistent format, and allows DHS to track progress on the assessments. Water systems and other entities may request TurboSWAP to use for their own assessments. To date, TurboSWAP has been distributed to 27 entities representing 360 water systems.

TurboSWAP is available for ground water sources that are currently in the DHS database.

In order to use TurboSWAP, water systems must have adequate computer resources and support. Specifically, the computer requirements are:

| | |
|----------------------|--|
| Computer: | Pentium or better |
| Operating System: | Windows 95, 98, NT, Me, or 2000 |
| Hard Drive Space: | 60 MB (more if storing map files) |
| Internet Connection: | Minimum 56K modem (high speed access preferred) capable of transmitting data via FTP with no firewall problems |
| Browser: | Internet Explorer latest edition |
| Printer: | Installed printer (color or laser) with latest drivers and sufficient memory for some graphics |
| Network: | If installed on a network, must have "Write" permissions on network drives |

TurboSWAP is customized to the user with a built in database of water systems and sources. The customized database includes all sources for a water system, including wells, surface water intakes, standby and inactive sources, and other source records. Sources in the database that don't require an assessment can be skipped over.

All requests for TurboSWAP must come through the DHS District Engineer, who will then forward the request to Leah Walker. The request is best accomplished by sending an e-mail message to the District Engineer. The request should include the following information:

- Name of Entity requesting TurboSWAP (i.e., water system, consultant, water district, or organization)
- Name(s) of Water System(s) to be included in the database
- DHS Water System identification number(s)
- Name of Contact to be sent TurboSWAP
- Contact mailing address, phone number, and e-mail address
- Name and phone number of DHS staff person to assist water system (to be determined by District Engineer)

The District Engineer will forward the request to Leah Walker. Leah will have a customized CD prepared by UCD-ICE. Leah will send the CD and a manual to the requestor. The DHS District Office will provide assistance on TurboSWAP and assessments to the water system. ❖

Installing New TurboSWAP Versions

New versions of TurboSWAP are released periodically. This may be due to changes as simple as improving reports, or as significant as including forms for transient systems. When a new version of TurboSWAP is available a message will be sent to the SWAP list server. The latest version is dated May 8, 2001.

If you are a DHS district with a LAN setup, the new version will be installed for you by DHS headquarters.

If you are a DHS district without a LAN setup, or an LPA county or other TurboSWAP user, get help from your IT personnel. New versions and installation instructions can be found at the UCD SWAP server:
<http://swap.ice.ucdavis.edu/> ❖

DWSAP Assistance

For questions or comments regarding this Update, contact Leah Walker at lwalker2@dhs.ca.gov or 707-576-2295.

For questions regarding TurboSWAP, send an e-mail message to ddwemhot@dhs.ca.gov and send a copy to Leah Walker.

For questions regarding GPS, send an e-mail message to Sky Harrison at sky@ice.ucdavis.edu.

For general DWSAP questions and comments, send an e-mail message to the SWAP list server at swap@ucdavis.edu. ❖

